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IPO/OSB/N-43/65 5 October 1965

Declass Review by NGA.

MEMORANDUM FOR: Assistant for Plans and Development, NPIC

SUBJECT:

Requirement for Print Enlargements

REFERENCE:

IPO/OSB/M-35/65, Dated 4 August 1965

The P&DS was contacted in response to a suggestion by

Deputy Director, NPIC, that the photo-

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interpreters have available to him a means of enlarging duplicate positive transparencies. The referenced memorandum requested P&DS to investigate the applicability of the enlarger used by NRTSC for enlargement of transparencies. No formal request for development was to be made until it was established that no commercial enlarger or government-sponsored equipment was now available for our use. were questioned concerning the availability of this equipment on Wednesday, 25 August 1965. According to the Naval Photographic Center now uses an enlarger but it is limited in format coverage to 70 mm film. Samples taken from the dunlicate positive transparencies were poor in quality. stated that other samples that he had seen approached the polaroid camera in resolution capabilities and that he would try to get some samples for our evaluation. None have been received to date. All of these negative prints, he stated, were from duplicate positive transparencies. No capability for duplicate positive-to-positive prints were available with this equipment.

- 2. To further establish the type of enlarger that would be of interest to the Photographic Analysis Group, the following performance characteristics are desired:
 - a) Heat processed rather than chemical, although this is not essential.
 - b) Dimensions should be such that small elevating table mounting would not be inconvenient. This means approximately 2-feet by 3-feet and a depth not to exceed 2 feet.

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- c) Magnification from seven to ten dismeters.
- d) Reproduction of print should be available from any area on a 9 x 18 image format.
- e) Image area to be reproduced is approximately two-inches by three-inches maximum.
- f) Resolution should be no less than 80 lines per mm which is comparable to that obtained from polaroid photographs.
 - g) Gray-scale range from 0.10 to 2.0 would be desirable.
- h) A positive-to-positive print with a processing time not to exceed }-minute.
- 3. The Photographic Analysis Group would be interested in any survey made by the Plans and Development Staff concerning the availability of a printer/processor that would enable confirmation of data with the possibility of additional interpretable data being available from the enlarged prints. A saving in time would be realized if the instrument were available to the PI in his immediate area for production of prints, instead of the present procedure of ordering prints from the Photo Lab. The immediate availability of these prints will not, however, replace the requirement for Photo Lab support. Although the Polaroid camera is now used when possible, its coverage is limited to a 1.1" x 1.4" object area on the Model 316 and an object area of 0.5" x 0.6" on the Model 700. Targets to be enlarged are often larger than the Polaroid coverage; therefore, these targets would have to be covered with a number of overlapping or adjoining photographs which is not satisfactory.

Colonel, USA Assistant for Photographic Analysis. PAG

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